

<b>Notice of Allowability</b>	Application No.	Applicant(s)
	10/770,611	MAZUMDER ET AL.
	Examiner	Art Unit
	David Lam	2818

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to pre-amendments file on 2/2/04 and 5/25/04.
2.  The allowed claim(s) is/are 47-80 (renumbered as 1-34).
3.  The drawings filed on 02 February 2004 are accepted by the Examiner.
4.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All
  - b)  Some\*
  - c)  None
 of the:
  1.  Certified copies of the priority documents have been received.
  2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6.  CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a)  including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.
  - (b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

#### Attachment(s)

1.  Notice of References Cited (PTO-892)
2.  Notice of Draftsperson's Patent Drawing Review (PTO-948)
3.  Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4.  Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5.  Notice of Informal Patent Application (PTO-152)
6.  Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7.  Examiner's Amendment/Comment
8.  Examiner's Statement of Reasons for Allowance
9.  Other \_\_\_\_\_.



DAVID LAM  
PRIMARY EXAMINER

***Response to Preliminary Amendment***

1. This office action is in response to pre-amendments file on 2/2/04 and 5/25/04.
  - Claims 1-46 have been cancelled.
  - Claims 47-80 are newly added.
  - Claims 47-80 are pending in the application.

***CROSSING MAIL***

Due to the preliminary amendment filed 5/25/04 being crossed in the mail with the office action mailed 5/28/04. This office action is substituted for that previous office action.

THE SHORTENED STATUTORY PERIOD FOR RESPONSE TO THE PREVIOUS OFFICE ACTION IS RESET TO EXPIRE BASE ON THE DATE OF THIS ACTION.

***Allowable Subject Matter***

2. The following is an examiner's statement of reasons for allowance: Claims 47-80 are allowable over the prior art of record because none of the prior art whether taken singularly or in combination, especially when these limitations are considered within the specific combination claimed, to teach: a device/system comprising: an amplifier circuit, among others as claimed in independent claims 47, 67, 79, having an input node to which a standard reference voltage signal is applied, a first output node at which a first reference voltage signal generated by the amplifier circuit and having a first voltage level greater than the standard reference voltage signal is provided; a second switch, among others as claimed in independent claims 52, 72, 80, coupled to

a third node of series coupled resistors and a reference node and having a control node coupled to output of an input buffer; a memory cell array, among others as claimed in independent claims 57, 77, coupled to an address decoder, control circuit, read/write circuit and an input stage for providing an output signal having a logic value base on the voltage of an input signal; cell array, among others as claimed in independent claims 61, 78, coupled to an address decoder, control circuit, read/write circuit and an input stage including an SSTL input buffer having input signal terminal, an output terminal and a reference voltage terminal.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- Jeong (6,002,616) discloses a reference voltage generating circuit of sense amplifier using residual data line.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Lam whose telephone number is (571) 272-1782. The examiner can normally be reached on 7:00 – 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571) 272-1787. The fax phone numbers for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

**D. Lam**

June 16, 2004



DAVID LAM  
PRIMARY EXAMINER